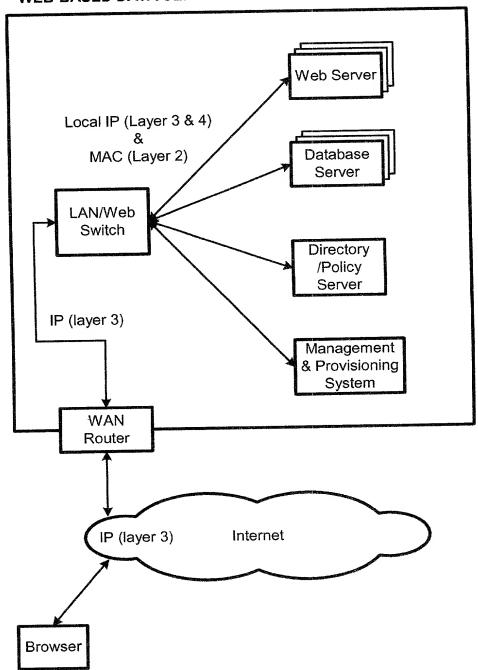
WEB-BASED DATA CENTER



PRIOR ART

FIG. 1

Protocol Layer	OSI	TCP/IP Protocol Stacks	Router/ Switch
7	Application		
6	Presentation	Application	
5	Session		
4	Transport	Transport (TCP)	Web Switch
3	Network	Internet (IP)	Router
2	Data Link	Subnet (MAC)	LAN Switch
1	Physical	Cubitot (III (C)	

PRIOR ART

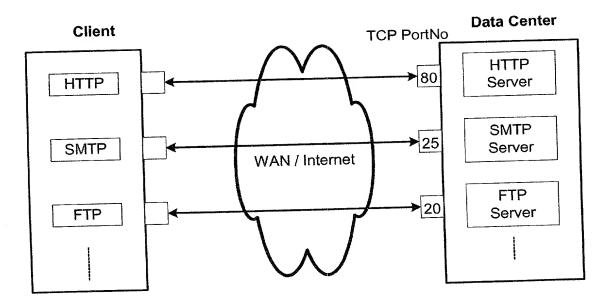
FIG. 2

IP PACKET

	Destination Source MAC Addr MAC Addr		r		MAC Header	Layer 2	
-		Sour IP Ac	Destin IP A			IP Header	Layer 3
		ource P port	tination P port			TCP Header	Layer 4
I	URL Cookie			HTTP Header			
-					Data portion	Layer 7	

FIG. 3

PRIOR ART



Well-Known TCP port (Softport) Connections

FIG. 4 PRIOR ART

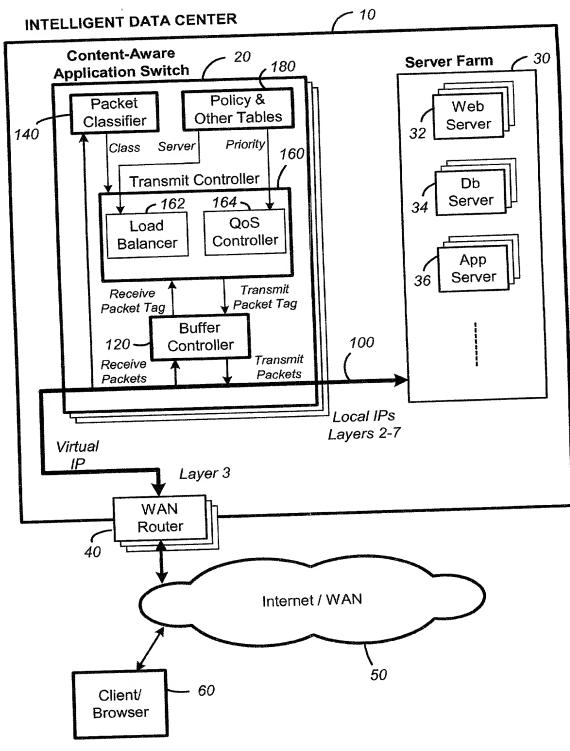


FIG. 5

Protocol Layer	TCP/IP	Message	Router/ Switch	
E-0, 01		HTTP Payload: Data & Other Personalized Information	Content- Aware Application Switch	
5-7	Application	HTTP Header: URL, Ref, Host, Cookie,		
4	Transport	TCP PortNos	Web Switch	
3	Internet	IP Addresses	Router	
2	Subnet	MAC Addresses	Lan Switch	
1				

FIG. 6

PACKET TAG

1 /401/201					
Packet ID	Buffer Address	Priority	Previous packet ID	Next packet ID	 Selected Server

FIG. 9

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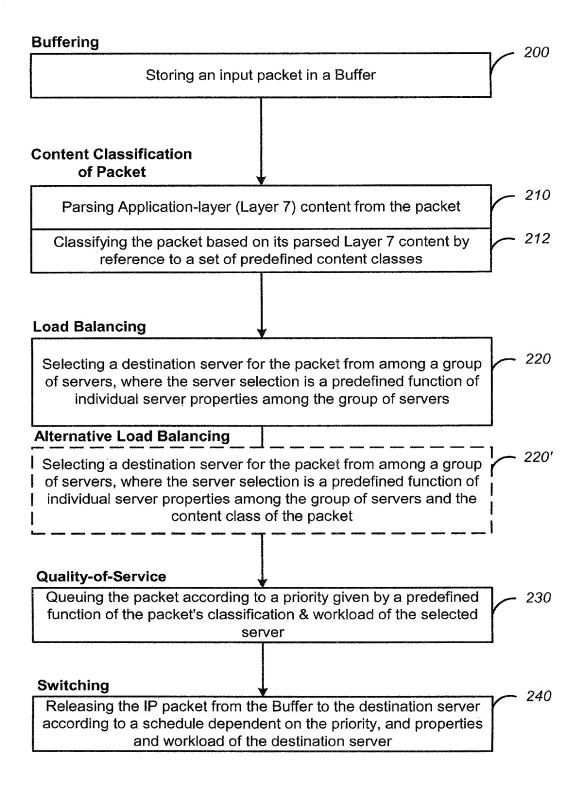


FIG. 7

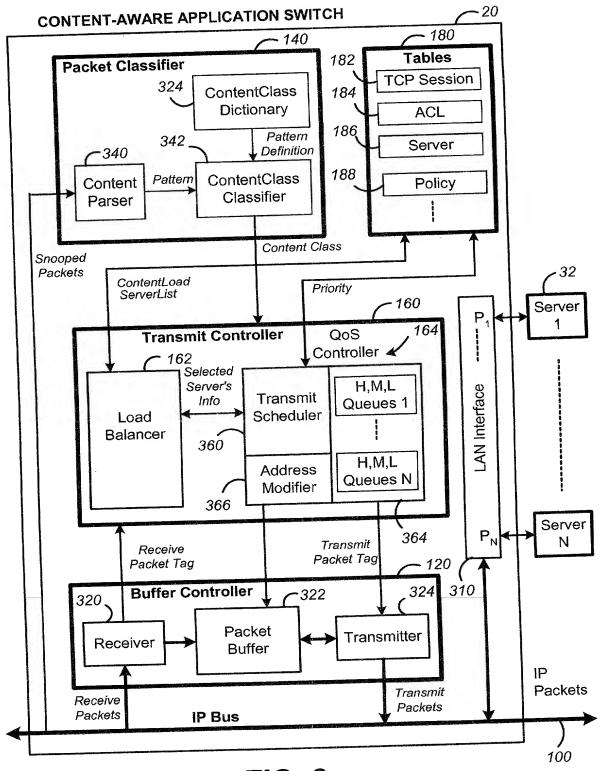


FIG. 8

CLASS CONTENT DICTIONARY

CLASS	Pattern
1	••••
2	
•	
•	
•	
K	

FIG. 10A

CLASS POLICY TABLE

CLASS	Priority	Server Group	Class Weight	
1	***		po#*	
2	7512	5166	6 2 2 2	
		•		
К				

FIG. 10B

SERVER PROPERTY

Server	IP & MAC Addresses	Max Connections	Default Server Weight	LOW Margin	HIGH Margin
1	1418	****	***	2401	
2		2020	****		****
				•	
٠				1	T
N					****

FIG. 10C

SERVER STATE

SERVER STATE							
Server	Current Connections	Current Load	Dynamic Server Weight	Count k			
1	u 7 7 4	***	***	1217			
2	KREE	E 9 F 5		****			
		•					
•	•		•				
N			****	****			

FIG. 10D

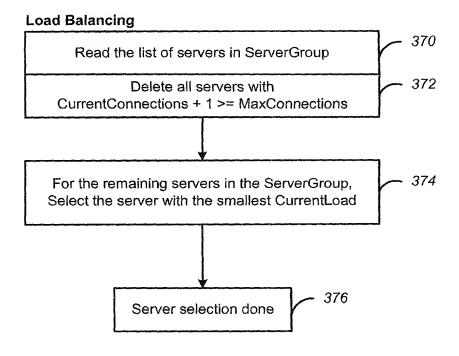


FIG. 11

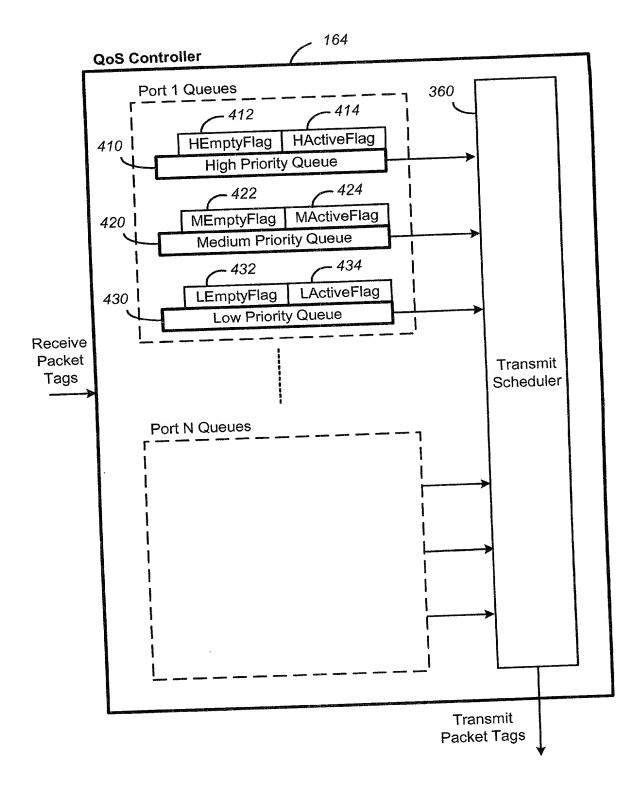


FIG. 12

Current	Load			
MaxLoad -	Priority Schen	ne HActiveFlag	MActiveFlag	LActiveFlag
HIGH	High Priority packets allowe Medium ones retarded	ed,	Alternate 1 and 0	0
Margin LOW	High & Mediur Priority packet allowed, Low Priority ones retarded	ts 1	1	Alternate 1 and 0
Margin	All Priority pack	ets 1	1	1

FIG. 13

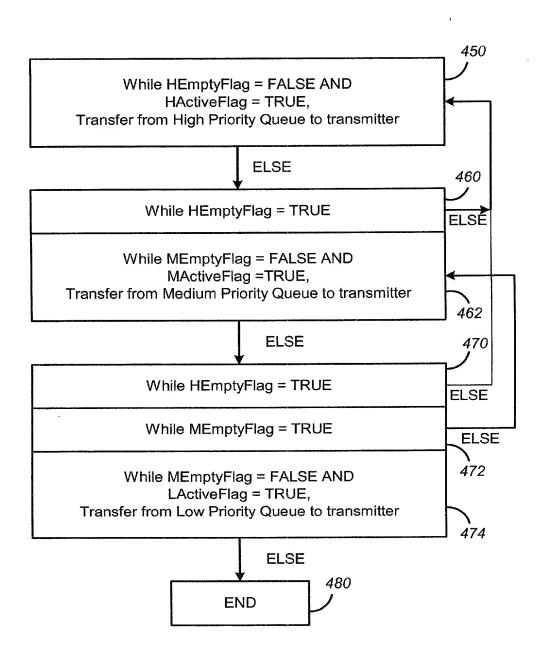


FIG. 14

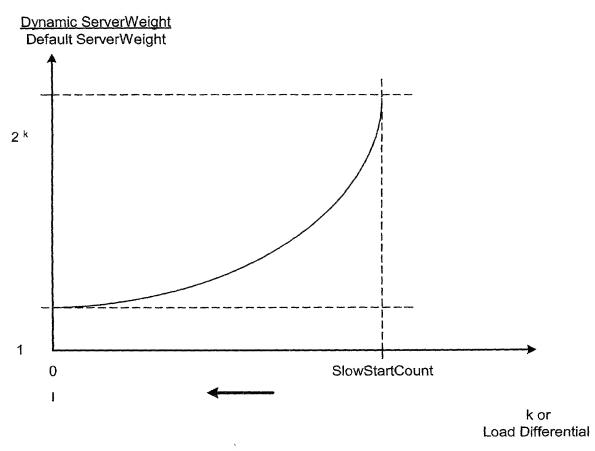


FIG. 15

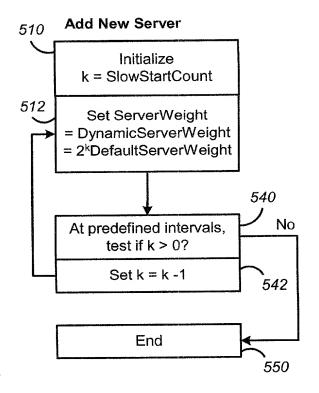


FIG. 16A

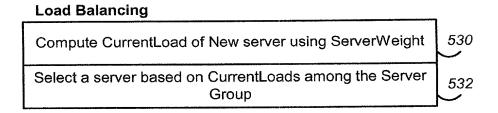


FIG. 16B

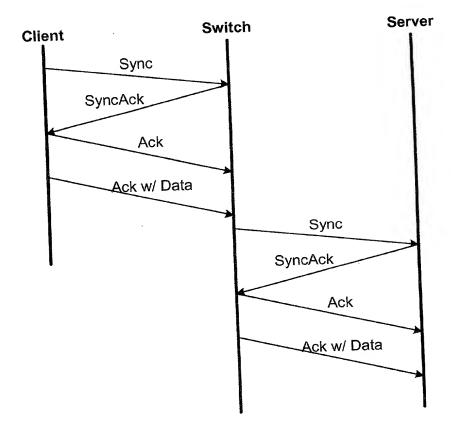


FIG. 17 TCP Slicing

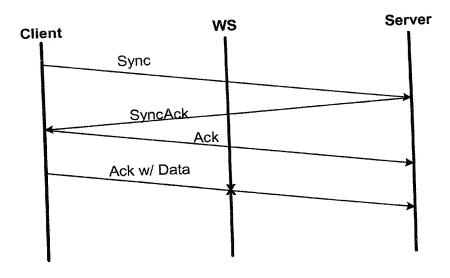


FIG. 18

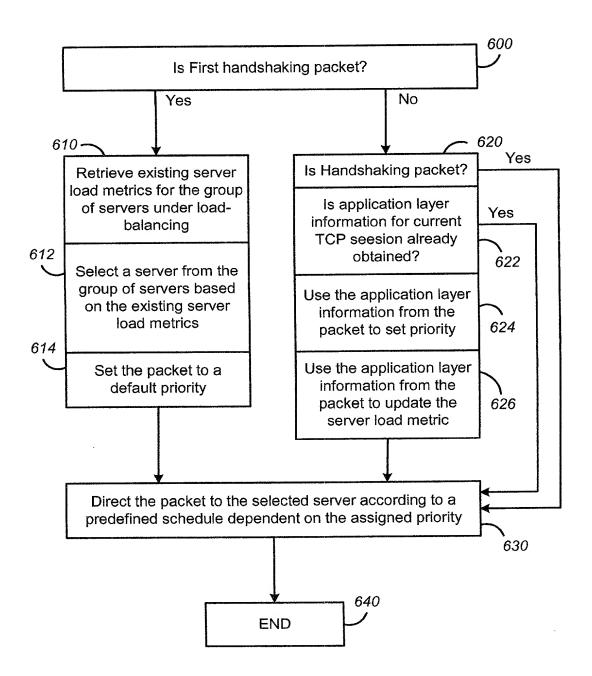


FIG. 19